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Our File No. 9281-4707
Client Reference No. SN US02083

PATENT APPLICATION TRANSMITTAL LETTER

To the Commissioner for Patents:

Transmitted herewith for filing is the patent application of Kinshiro Takadate and Hitoshi Onishi for Non-Reciprocal Circuit Element With Reduced Shift Of Center Frequency Of Insertion Loss With Change In Temperature And Communication Device.

Enclosed are:

- Preliminary Amendment
- 50 pages of application (including title page and Abstract), 14 sheets of formal drawings and the following Appendices: n/a
- Declaration and Power of Attorney for Patent Application
- Assignment transmittal letter and Assignment of the invention to: Alps Electric Co., Ltd.
- Submission of Certified Copy of Priority Document and certified copy of Japanese Application No(s). 2002-334999
- Information Disclosure Statement, PTO-1449, and reference _____

| Claims as Filed | Col. 1 | Col. 2 |
|-----------------------------------|-----------|-----------|
| For | No. Filed | No. Extra |
| Basic Fee | | |
| Total Claims | 6-20 | |
| Indep. Claims | -3 | |
| Multiple Dependent Claims Present | | |

*If the difference in col. 1 is less than zero, enter "0" in col. 2.

| Small Entity | | Other Than Small Entity | |
|--------------|--------|-------------------------|--------|
| Rate | Fee | Rate | Fee |
| | \$ 385 | | \$ 770 |
| x\$9= | \$ | x\$18= | \$ |
| x\$43= | \$ | x\$86= | \$ |
| +\$145= | \$ | +\$290= | \$ |
| Total | \$ | Total | \$770 |

- Please charge my Deposit Account No. 23-1925 in the amount of \$ _____. A duplicate copy of this sheet is enclosed.
- A check in the amount of \$770.00 to cover the filing fee is enclosed.
- The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.
 - Any additional filing fees required under 37 CFR § 1.16.
 - Any patent application processing fees under 37 CFR §1.17.
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 - Any filing fees under 37 CFR § 1.16 for presentation of extra claims.
 - Any patent application processing fees under 37 CFR § 1.17.
 - The issue fee set in 37 CFR § 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR § 1.311(b).

Date

11/21/03

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